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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/882,043	06/18/2001	Ho-Han Ryu	6192.0174.AA	1375

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EXAMINER
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RAO, SHRINIVAS H

ART UNIT	PAPER NUMBER
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2814

DATE MAILED: 12/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

### Application No.

09/882,043

### Applicant(s)

RYU ET AL.

### Examiner

Steven H. Rao

### Art Unit

2814

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 August 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) 19-33 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Priority***

Receipt is acknowledged of paper submitted under 35 U.S.C. 119(a)-(d), claiming priority from Korean Patent Application No. 2000-65707 filed on November 07, 2000 which papers have been placed of record in the file.

### ***Response to Amendment***

Applicants' response to the election requirement filed on August 17, 2003 has been entered on September 17, 2003.

Therefore claims 1-18 are currently pending in the Application.  
Non-elected claims 19-33 have been withdrawn from consideration.

### ***Election/Restrictions***

Claims 19-33 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected method claims, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 4

Applicant's election with traverse of the election/restriction requirement in Paper No. 4 is acknowledged.

It is noted for the record that the election requirement mailed on July 22, 2003 required election between two groups ,

"Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-18, are drawn to a liquid crystal device, classified in class 349, subclass 58.
- II. Claims 19 to 33, are drawn to method of assembling a liquid crystal device , classified in class 438, subclass 30. "

Applicants' reply , " Applicants' provisionally elects Group I, Claims 1-18 drawn to method of assembling a liquid crystal device, classified in class 438 subclass 30 with traverse".

Therefore the above election is election of group I ( claims 1-18) drawn to a liquid crystal device, classified in class 349, subclass 58. ( and NOT drawn to method of assembling a liquid crystal device , classified in class 438 subclass 30).

The traversal is on the ground(s) that a through search for any one group of claims would encompass a search for the subject matter of the remaining claims this is not found persuasive because the search for the device claims 1-18 of Group 1 in class 349/58 would NOT encompass a search for the group II method claims 19-33 of class 438/ 30 . The method claims ( 19-33) recite an another and materially different process, ( not required for the group I , claims 1-18 ) namely the body of the first engaging member need not penetrate through the first and second engaging holes but rather may be attached with the engaging member ending in the second hole without penetrating through it.

The requirement is still deemed proper and is therefore made FINAL.

This application contains claims 19-33 drawn to an invention nonelected with traverse in Paper No. 4.

A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

### ***Specification***

Applicants' cooperation is sought to correct the numerous English language Errors ( to many to be listed) in the specification and claims.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6 to 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 recites , " receiving receptacle" whereas claim1 " mold frame" .

Applicants' specification page 5 line 13 states, "mold frame 730 which is a receiving receptacle" .

Therefore mold frame and receiving receptacle both refer to the same element e.g 730 in figure 1, page 15 lines 3-4, etc.

Applicants are required to use the same terminology while referring to the same element s throughout the claims.

Claim 9 is also rejected for reciting, "a liquid crystal display device according to claim 6, wherein the bottom surface of the receiving receptacle is one of the mold frame and a back cover. "

Applicants' specification (page 5 line 13 states, "mold frame 730 which is a receiving receptacle" ) describes mold frame and the receiving receptacle to be one and the same therefore it not under stood how only the bottom surface of the receiving receptacle can be the mold frame when they both refer to the same element and further how a back cover can be included therein.

Claim 18 is also rejected because of the recitation , " a liquid crystal display device according to claim 6, wherein the case is one of a front case and a rear case

It is not understood what Applicants' intend to include/exclude by the above recitation.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 to 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Ha et al. (U.S. Patent No. 6,593,979, herein after Ha).

With respect to claim 1Ha describes a liquid crystal display module, comprising:

a mold frame for sequentially receiving a back light assembly having a light source for providing light ( Ha fig. 1 # 400, col. 6 line 36) and a display unit for displaying images using the light from the back light assembly, ( Ha fig. 1 # 600, col. 6 lines 21) said mold frame having a first engaging hole on a bottom surface thereof; ( figs. 1,12 holes in 400 for receiving fastening screw 786) and a top chassis engaged with said mold frame such that said top chassis is opposite to the mold frame, for guiding the position of the display unit, the top chassis having a second engaging hole at a position corresponding to first engaging hole. ( Ha figs.1,2 # 300 and holes in 300 corresponding to holes in 400 above)

With respect to claim 2 Ha describes a liquid crystal display module according to claim 1, wherein the light - source comprises a lamp for generating the light, a lamp holder engaged with both ends of the lamp for fixing the position of the lamp, and a lamp cover for covering and is protecting the lamp. ( Ha figure 1 # 500, lamp unit # 510, light guiding plate- lamp holder # 520, lamp cover 504, col. 5 lines 65 to col. 6 lines 9).

With respect to claim 3 Ha describes a liquid crystal display module according to claim 2, wherein the first engaging hole is overlapped at least with the lamp cover when viewed from the side on which the lamp is positioned in the mold frame. (Ha figs. 13 and 14)

With respect to claim 4 Ha describes a liquid crystal display module according to claim 1, further comprising a back cover engaged with the rear surface of the mold frame, and wherein a third engaging hole is formed at a position corresponding to the

Art Unit: 2814

first engaging hole of the mold frame. ( Ha figure 1 800 engaged with 750-back cover, and third hole-fig. 1).

With respect to claim 5 Ha describes a liquid crystal display module according to claim 1, wherein a plurality of the first and second engaging holes are formed in an end portion of the mold frame and the bottom surface of the top chassis. ( Ha figure 1 holes formed on end portions of 800 and 780).

With respect to claim 6, to the extent understood, Ha describes a liquid crystal display device, comprising:

a liquid crystal display module for sequentially receiving a back light assembly having a light source for providing light ( Ha fig.1 # 400, col. 6 line 36) and a display unit for receiving the light from the lo back light assembly and displaying an image, ( Ha fig. 1 # 600, col. 6 line 21) said liquid crystal display module with a receiving receptacle ( same as mold frame) having a first engaging hole on a bottom surface thereof ( Ha fig. 1 # 400) and a top chassis, ( Ha fig.1 # 300 with Holes) in which a second engaging hole is formed at a position corresponding to the first engaging hole, being engaged with the receiving receptacle such that it is opposite to the receiving receptacle to guide the position of the display unit is a case for receiving the top chassis, said case having a catching member; (i.e. a screw, Ha fig. 12 # 786, col. 8 lines 59) and an engaging device penetrating through the first and second engaging holes, for fixing the receiving receptacle and the top chassis, one side of said engaging device being engaged with the catching member. ( Ha figure 1) .



With respect to claim 7. Ha describes a liquid crystal display device according to claim 6, wherein the light source comprises a lamp for generating light, a lamp holder engaged with both ends of the lamp for fixing the position of the lamp, and a lamp cover for covering and protecting the lamp. ( Ha figure 1 # 500, lamp unit # 510, light guiding plate- lamp holder # 520, lamp cover 504, col. 5 lines 65 to col. 6 lines 9).

With respect to claim 8 Ha describes a liquid crystal display device according to claim 7, wherein the first engaging hole is overlapped at least with the lamp cover when viewed from the side where the lamp is positioned in the mold frame. (Ha figs. 13 and 14)

With respect to claim 9, to the extent understood, Ha describes a liquid crystal display device according to claim 6, wherein the bottom surface of the receiving receptacle ( mold frame) is one of the mold frame and a back cover. ( Ha figure 1) .

With respect to claim 10. A liquid crystal display device according to claim 6, wherein a plurality of the catching member (screw) is formed at both end portions of the inner side bottom surface of the case. ( Ha figure 12)

With respect to claim 11 to the extent understood, Ha describes a liquid crystal display device according to claim 6, wherein the catching member ( Screw) is integrally formed with the case and is a support surface extending from the side wall of the case in parallel to the bottom surface of the case. ( Ha figure 21)

With respect to claim 12 Ha describes a liquid crystal display device according to claim 11, wherein a through hole for receiving one side of the engaging device is formed

at a central portion of the support surface. ( Ha figures 12 19 and 21 identical to Applicants' figure 6 screw and nut).

With respect to claim 13 Ha describes a liquid crystal display device according to claim 12, wherein a guide recess for guiding the engaging device to the through-hole is formed from the through hole of the support surface in a direction of an end portion of one side of the support surface. ( Ha figure 18, # 730).

With respect to claim 14 Ha describes a liquid crystal display device according to claim 13, wherein the engaging means comprises a first engaging member having a head portion wider than the through-hole to prevent the deviation from the through-hole of the support surface and a body portion penetrating through the first and second engaging holes and protruding to the rear surface of the receiving receptacle and having a screw recess at one end portion thereof, and a second engaging device engaged with the screw recess of the first engaging member to fix the receiving receptacle and the top chassis to the case.( Ha figure 21)

With respect to claim 15 Ha describes a liquid crystal display device according to claim 14, wherein a first direction of a region adjacent to the head portion in the body portion of the first engaging member is thinner than the width of the guide recess to slide the first engaging member into the guide recess of the catching member and to insert the first engaging member into the through-hole.( Ha figure 12) .

With respect to claim 16 Ha describes a liquid crystal display device according to claim 15, wherein a second direction parallel to the head portion of a region adjacent to the head portion in the body portion of the first engaging member and perpendicular to

the first direction is wider than the width of the guide recess to prevent the deviation of the engaging member from the through-hole. ( Ha figure 13).

With respect to claim 17 Ha describes a liquid crystal display device according to claim 6, wherein a plurality of the first engaging hole and a plurality of the second engaging hole are formed.( ha figure 9) .

With respect to claim 18. to the extent understood, Ha describes a liquid crystal display device according to claim 6, wherein the case is one of a front case and a rear case. ( Ha figure 1).

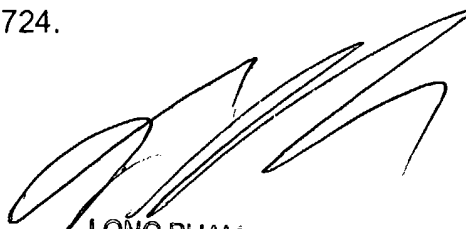
Any inquiry concerning this communication or earlier communication from the examiner should be directed to Steven H. Rao whose telephone number is (703) 306-5945 ( After January 12, 2004 Phone number may be ( 571) 272-1718) . The examiner can normally be reached on Monday- Friday from approximately 7:00 a.m. to 5:30 p.m.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956. The Group facsimile number is (703) 308-7724.

Steven H. Rao

Patent Examiner

November 19, 2003.



LONG PHAM  
PRIMARY EXAMINER